REMARKS

Applicants acknowledge the indication of the allowability of the subject

matter of Claim 8, as set forth at page 5 of the Office Action. In particular,

Claim 8 would be allowable if rewritten in independent form. However, for the

reasons set forth hereinafter, Applicants respectfully submit that Claim 8 is

allowable in its present dependent form.

Claims 3-7 have been rejected under 35 U.S.C. §112, second paragraph, for

failing to particularly point out and distinctly claim the invention, based on

certain formal issues identified on page 2 of the Office Action. In response to

these grounds of rejection, Applicants have amended Claim 3 in a manner which

addresses and is believed to resolve the cited formal issues. In addition,

Applicants have reviewed and revised each of the remaining claims in order to

place them into better from for prosecution in the United States, and to resolve

any possible additional formal issues regarding those claims. Accordingly,

reconsideration and withdrawal of this ground of rejection is respectfully

requested.

Claims 1 through 5 have been rejected under 35 U.S.C. §103(a) as

unpatentable over Ozawa et al (European patent document EP 1167165) in view

of Peter (U.S. Patent No. 4,566,407). In addition, Claims 6 and 7 have been

rejected under 35 U.S.C. §103(a) as unpatentable over Ozawa et al and Peter,

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and further in view of Attinger et al (German patent document DE 196 30 899

C1). However, for the reasons set forth hereinafter, Applicants respectfully

submit that all claims which are of record in this application, including new

Claims 9-16, distinguish over the cited references, and are allowable.

The present invention is directed to an air control system for controlling

the flow of air from the front grill of an automobile into the vehicle engine

compartment. For this purpose, as recited in Claim 1, the air control system

according to the invention includes air ducts which guide a cooling air flow into

the engine compartment. The latter ducts are defined by boundary walls which

are disposed approximately parallel to the direction of air flow, and are

integrated into a body panel, which extends approximately transversely to the

direction of air flow and has openings that open to the air ducts. The latter

openings are also disposed at least partially in an area covered by air passages in

the front grill (referred to in Claim 1 as a "front end wall").

According to a feature of the invention, the body panel is "mounted and

suspended from the cooling module" within the front end of the vehicle. In

addition, Claim 1 further specifies that the boundary walls which define the

ducts project from perimeter areas adjacent to the openings in the body panel,

and have circumferential sealing flanges at their free ends.

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New Claim 9, on the other hand, defines an air control system for the front

end of a motor vehicle which includes a body panel that extends essentially

transversely to a longitudinal axis of a body of the vehicle, and a plurality of air

ducts which are in communication with openings in the body panel. The air

ducts are configured to guide a flow of air from air passages in the front end wall

of the vehicle into the motor compartment, and are defined by bounding walls

that are integrated into the body panel. In addition, Claim 9 further recites that

the air control system also includes mounting means for supporting the body

panel in the front end of the vehicle, which mounting means consist of "mounting

eyes in said body panel, by which said body panel is suspended on projections in

the cooling unit".

The latter feature of the invention is described in paragraphs [0021] and

[0030] of the Substitute Specification. As noted in paragraph [0039], it is

especially advantageous that the body panel 1 is "simply suspended by its mount

eyes 14 on projections of the cooling module 22". As a result, it requires no

additional fastening of the body panel after the cooling module is mounted in the

front end in this manner. Thus, this arrangement makes the installation of the

body panel and the ducts integrated therein quite simple and efficient: as noted

in paragraph [0005], the body panel can be swung as a preassembled unit into

the front end, together with a cooling module, without need for additional sealing

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of the air ducts externally to one another. The latter features of the invention

are not taught or suggested by the cited references.

The Ozawa et al reference, in particular, discloses a front end structure for

a motor vehicle which includes a front end panel 400 (Figure 1) that includes a

duct structure for preventing air introduced from a grill opening 452 from

bypassing cooling units 100, 200 as it passes through the front end of the vehicle.

To this extent, it is similar to the present invention. (See Figure 2.)

An important difference between the Ozawa et al structure and the

present invention, however, resides in the manner in which the front end panel

400 and the heat exchanger 200 are installed in the front of the vehicle. In

particular, as noted in paragraph [0006] (Column 1, lines 53-55), in Ozawa et al,

the two cooling units (radiator 100 and heat exchanger 200) are "fixed to the

front end panel" 400. In turn, as noted in paragraph [0010] (Column 2, lines 46-

49), the front end panel itself is "fixed on the vehicle body (600) at the vehicle

front end portion to constitute a vehicle structural member".

The mounting arrangement in Ozawa et al is thus opposite to that of the

present invention, and requires a fundamentally different installation technique.

That is, (as noted) the body panel of the present invention "can be swung as a

preassembled unit into the front end" as recited in Claim 1, because the body

panel is simply suspended from the cooling module. Thus, the assembly is very

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simple. On the other hand, in Ozawa et al, the cooling units 100, 200, are fixed

to the front end panel, which in turn is fixed on the vehicle body and constitutes

a vehicle structural member. This can be seen in Figures 1 and 5, which show a

flange at either side of the lower opening 462, which (as appears from Figure 1)

has holes that mate holes in the vehicle body 600. Accordingly, since the heat

exchangers 100, 200 are in fact supported on the front end panel 400, it follows

that the front end panel 400 cannot be mounted simply by suspending it from the

cooling units. Accordingly, any proposed modification of Ozawa et al to provide

that the front end panel 400 is "suspended from" the cooling module, would

require a fundamental modification of Ozawa et al in a manner which is not

apparent.

The latter feature of the invention is recited in new Claim 9 in the forms of

"means plus function". In particular, Claim 9 recites that the air control system

includes "mounting means for supporting said body panel in said front end of the

vehicle" with the mounting means "consisting of mounting eyes in said body

panel by which said body panel is suspended on projections in said cooling unit".

As noted in paragraph [0030] of the specification, the body panel thus requires

no additional fastening after being mounted in the front end of the vehicle in this

manner. Accordingly, Claim 9 recites that the means for mounting consists of

mounting eyes by which the body panel is suspended on projections in the cooling

unit.

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The Office Action indicates at page 3 that Ozawa et al does not explicitly detail the connection between the body panel and the cooling module. While Applicants agree that the details of the connection are not discussed, as noted previously, Ozawa et al does indicate that the radiator 100 and heat exchanger 200 are in fact "fixed to the front end panel" and not vice versa. Moreover, as noted previously, the front end panel is fixed on the vehicle body in such a manner as to constitute a "vehicle structural member".

The features of the invention as described above, which are not found in Ozawa et al, are said, however, to be supplied by the Peter reference, which discloses a vehicle having at least two radiators (reference numerals 8 and 9 in Figure 2) and an air guidance system for guiding a cooling air stream to the respective radiators. In Peter, however, two separate air guide housings 24, 36 are provided, as can be seen, for example, in Figure 2. (Column 3, lines 60-63.) That is, the upper air duct 15 is defined by an air guide housing 36, while the lower air duct 14 is defined by an air guide housing 24. (See, for example, Column 1, lines 51-56; and Column 3, lines 25-29 and 47-52.) As can be seen from Figure 3, for example, the upper air guide housing 36 (and presumably the lower air guide housing 24, which cannot be seen in Figure 3) does not take the form of a body panel at all. Rather, a comparison of Figures 2 and 3 shows that they merely constitute ducts which are disposed toward the middle of the vehicle. Moreover, while Peter also does not discuss the manner in which the respective

ducts are actually attached within the front end of the vehicle, it is clear that

they are in fact supported at both of their front and rear ends within the vehicle.

(See, for example, Column 1, lines 53-54.) Thus, at Column 3, lines 25-29, the

specification indicates that the lower air guide housing 24 is "detachably

connected to webs 25 and 26" of the bumper cover 18. The specification does not

indicate how the rearward end of the air guide housing 24 is supported.

The front end of the air guide 36 extends into a space 38 between upper

and lower portions of a support 19 for the bumper 5, and is "held in that position

without additional fastening means, the upper and lower wall sections of air

guide housing 36 being locally supported on the insides of support 19". The

specification also indicates that the rearward end of the air guide housing 36 is

connected to the radiator 9, although once again there is no indication of how

such connection is achieved.

In view of all of the foregoing, Applicants respectfully submit that a

combination of the disclosures in Peter and Ozawa et al would not replicate the

present invention. In particular, it would not provide an air control system in

which the body panel is "mounted to and suspended from the cooling module" as

recited in Claim 1. Moreover, it would not include "mounting means for

supporting said body panel in said front end of the vehicle, said mounting means

consisting of mounting eyes in said body panel by which the body panel is

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suspended on projections in said cooling unit", as recited in Claim 9. The latter

features of the invention are neither taught nor suggested by either reference.

In this regard, it is also important to note that the Ozawa et al reference

itself affirmatively teaches away from any such modification, because, as noted

previously, in the Ozawa et al structure, the heat exchangers 100, 200 are in fact

mounted on the front end panel 400, which in turn is rigidly connected to the

vehicle body. Accordingly, even assuming that a person skilled in the art were to

consider modifying the Ozawa et al structure in view of the disclosure in Peter, it

is not at all apparent how such a modification would or could be affected without

fundamental changes in the structure of the Ozawa et al system. At the very

least, any such modification would require inventive activity.

Finally, the Attinger et al reference has been cited only in respect of

Claims 6 and 7, as disclosing a round opening located to one side of an upper

opening. Accordingly, Applicants respectfully submit that Attinger et al does not

contain any disclosure which would provide or suggest those features of the

invention which are missing in both Ozawa et al and Peter, as described above.

In light of the foregoing remarks, this application should be in

consideration for allowance, and early passage of this case to issue is respectfully

requested. If there are any questions regarding this amendment or the

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application in general, a telephone call to the undersigned would be appreciated

since this should expedite the prosecution of the application for all concerned.

If necessary to effect a timely response, this paper should be considered as a petition for an Extension of Time sufficient to effect a timely response, and please charge any deficiency in fees or credit any overpayments to Deposit

Account No. 05-1323 (Docket #095309.56086US).

Respectfully submitted,

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Attachment – Substitute Specification and Marked Up Version

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